

• **Activity 1. Write a definition of the following words.**

- 1 Matter: _____
- 2 Quantity: _____

• **Activity 2. Answer the following questions.**

- 1 The mass of a piece of wood is 20 kg. What is the mass of the piece of wood in grams?

- 2 What is the name of the instrument we use to measure mass?

- 3 The volume of a ball is 2,000 cm³. What is its volume in dm³?

- 4 Name an instrument used in the laboratory to measure the volume of a liquid.

• **Activity 3. Answer the following questions.**

- 1 Name the quantity which measures the relationship between mass and volume.

- 2 Calculate the density of the substances in the table and express the result in the corresponding unit.

Body	Mass	Volume	Density
aluminium	16.2 kg	6 dm ³	a
iron	70.7 g	9 cm ³	b
mercury	68 g	5 cm ³	c

- 3 A measuring cylinder contains 40 ml of water. A metal ball is placed in the measuring cylinder and the level of the water goes up to 48 ml. What is the volume of the ball? Express the result in ml and cm³.

